

**FRIEDMAN & BRUYA, INC.**

**ENVIRONMENTAL CHEMISTS**

Date of Report: 11/23/98

Date Received: 11/12/98

Project: Metro Self Monitor, PO# M77690

Date Samples Extracted: 11/18/98

Date Extracts Analyzed: 11/19/98

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE  
FOR CHROMIUM, COPPER, NICKEL, ZINC  
USING METHOD 6010**

**Samples Processed Using Method 3005A**

Results Reported as mg/L (ppm)

<u>Sample ID</u>	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M77690	0.34	0.22	0.29	<0.05
Method Blank	<0.05	<0.05	<0.05	<0.05

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

Date of Report: 11/23/98

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Project: Metro Self Monitor, PO# M77690

### QUALITY ASSURANCE RESULTS FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 811022-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	mg/L (ppm)	0.68	0.67	1	0-20
Copper	mg/L (ppm)	0.42	0.41	2	0-20
Nickel	mg/L (ppm)	0.65	0.59	10	0-20
Zinc	mg/L (ppm)	0.1	0.11	10	0-20

Laboratory Code: 811022-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	% Recovery MS	% Recovery MSD	Acceptance Criteria	RPD
Chromium	mg/L (ppm)	5	0.68	94	97	80-120	3
Copper	mg/L (ppm)	5	0.42	87	86	80-120	1
Nickel	mg/L (ppm)	10	0.65	96	98	80-120	2
Zinc	mg/L (ppm)	5	0.1	103	105	80-120	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	RPD
Chromium	mg/L (ppm)	5	100	101	80-120	1
Copper	mg/L (ppm)	5	104	104	80-120	0
Nickel	mg/L (ppm)	10	99	101	80-120	2
Zinc	mg/L (ppm)	5	100	101	80-120	1

811 053

MM AI

11/12/88

$$1 = 10 \mu m$$

Send Report To:

Company ALASKAN Copper Works

Contact GERALD Thompson

Address 628 Harding St

City, State, Zip Seattle WA 98134

Phone # 206 - 382 - 8379

FAX # 206-382-4309

Date 11-12-58

PROJECT NAME

PURCHASE ORDER #

7238

metano self monitor

03977 4

SAMPLERS (signature)

### PROJECT LOCATION

3200 6<sup>th</sup> Ave S.

REMARKS

### SAMPLE DISPOSAL INFORMATION

9

Dispose after 30 days



## Return Samples



### Call for Instructions

SIGNATURE

PRINT NAME

**COMPANY**

Date \_\_\_\_\_

Time

Relinquished by:

Genald Thompson

ACW

11-12-58

1.06

Received by:

Hiroguchi Takai

F & B Inc.

11-12-98

1. Topu

Relinquished by:

Received by:

**FRIEDMAN & BRUYA, INC.**

**ENVIRONMENTAL CHEMISTS**

James E. Bruya, Ph.D.  
Charlene Jensen, M.S.  
Bradley T. Benson, B.S.  
Kurt Johnson, B.S.

3012 16th Avenue West  
Seattle, WA 98119-2029  
TEL: (206) 285-8282  
FAX: (206) 283-5044  
e-mail: fbi@isomedia.com

November 23, 1998

**DUPLICATE COPY**

**INVOICE #98ACU1123-1**

Accounts Payable  
Alaskan Copper Works  
628 South Hanford St.  
Seattle, WA 98134

RE: Project Metro Self Monitor, PO# M77690: Results of testing requested  
by Gerry Thompson for material submitted on November 12, 1998.

1 water sample analyzed for  
Chromium, Copper, Nickel, and Zinc  
using Method 6010 @ \$65 per sample

\$ 65.00

Amount Due .....

**\$ 65.00**

FEDERAL TAX ID (b) (6)

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.  
Charlene Jensen, M.S.  
Bradley T. Benson, B.S.  
Kurt Johnson, B.S.

3012 16th Avenue West  
Seattle, WA 98119-2029  
TEL: (206) 285-8282  
FAX: (206) 283-5044  
e-mail: fbi@isomedia.com

November 23, 1998

Gerry Thompson, Project Manager  
Alaskan Copper Works  
628 South Hanford St.  
Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on November 12, 1998 from your Metro Self Monitor, PO# M77690 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Manuel Marti  
Project Manager

Enclosures  
ACU1123R.DOC